

Potential ARAR Exceedances in Porewater Collected at the Portland Harbor Site for Selected Chemicals

Table 1 - MCLs outside GASCO – Arkema

<b>Chemical</b>	<b>MCL</b>	<b>Detections &gt; MCL</b>	<b>Maximum Concentration</b>	<b>Site of maximum</b>
Benzene	5	0	0.25	Gunderson
TCE	5	0	3.9	Gunderson
PCE	5	0	2.2	Gunderson
Vinyl Chloride	2	1	2.5	Gunderson
1,2-DCA	5	0	4.7	Gunderson
B(a)P	0.2	1	0.35	Exxon Mobil
As (total)	10	24	77	Exxon Mobil
As (dissolved)	10	28	77	Exxon Mobil
Hg (total)	2	0	0.27	Exxon Mobil
Sb (total)	6	0	1.74	Gunderson
Cd (total)	5	0	0.7	Exxon Mobil
Pb (total) <sup>1</sup>	15	8	99.8	BP-Arco
Pb (dissolved)	15	0	2.5	BP-Arco

Table 2 – MCLs at GASCO, Siltronic, Rhone Poulenc and Arkema

<b>Chemical</b>	<b>MCL</b>	<b>Detections &gt; MCL</b>	<b>Maximum Concentration</b>	<b>Site of maximum</b>
Benzene	5	11	540	GASCO
TCE	5	3	7100	Arkema
PCE	5	3	12000	Arkema
Vinyl Chloride	2	8	1200	Arkema
1,1,2-TCA	5	1	400	Arkema
1,2-DCA	5	1	520	Arkema
Cis-1,2-DCE	5	6	1200	Arkema
Chlorobenzene	100	5	30000	Arkema
1,2-DCB	600	1	640	Rhone Poulenc
1,4-DCB	75	3	240	Rhone Poulenc
1,2,4-TCB	70	1	110	Arkema
B(a)P	0.2	5	4.4	GASCO
As (total)	10	16	37.6	Arkema
As (dissolved)	10	9	27	Arkema
Hg (total)	2	0	0.495	Arkema
Sb (total)	6	0	3.62	Arkema
Cr	100	0	27.5	Arkema
Cd (total)	5	1	36	Arkema
Pb (total) <sup>1</sup>	15	9	131	Arkema
Pb (dissolved)	15	0	1.49	Rhone Poulenc
Cyanide	200	0	23.1	GASCO

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<sup>1</sup> Trigger Level

Table 3 – Fish Consumption AWQC Site-Wide

Chemical	Fish Consumption AWQC	Detections > AWQC	Maximum Concentration	Site of maximum
Arsenic	0.14	All samples	77	Exxon Mobil
Manganese <sup>2</sup>	100	All samples but 4	66,200	Gunderson
TCE	30	3	7100	Arkema
PCE	3.3	5	12000	Arkema
1,2-DCA	37	1	520	Gunderson
1,1-DCE	3.2	4	260	Gunderson
1,1,2-TCA	16	1	400	Arkema
Benzene	51	3	540	GASCO
B(a)A	0.018	25	4.8	GASCO
B(a)P	0.018	25	4.4	GASCO
B(k)F	0.018	18	2.3	GASCO
B(b)F	0.018	20	0.27	GASCO
Chrysene	0.018	25	8	GASCO
B(a,h)A	0.018	7	0.34	GASCO
I(1,2,3-cd)P	0.018	28	2.7	GASCO
4,4'-DDT <sup>3</sup>	0.00022	5	2.7	Arkema
4,4'-DDE	0.00022	5	0.2	Arkema
4,4'-DDD	0.00031	9	1.7	Arkema

<sup>2</sup> The fish consumption AWQC for Mn predates the 1980 methodology and does not utilize the fish ingestion BCF approach.

<sup>3</sup> Detection limits for non-detected values all exceed AWQC

Table 4 – Chronic AWQC Site-wide

<b>Chemical</b>	<b>Chronic AWQC<sup>4</sup></b>	<b>Detections &gt; AWQC</b>	<b>Maximum Concentration</b>	<b>Site of maximum</b>
As (total)	150	0	77	Exxon Mobil
Cu (total)	2.7	52	63.1	Exxon Mobil
Cu (dissolved)	2.7	1	3.63	Rhone Poulenc
Hg (total)	0.77	0	0.495	Arkema
Cr (total)	11	14	31.5	Arkema
Cr (dissolved)	11	0	8.95	Arkema
Cd (total)	0.094	47	36	Rhone Poulenc
Cd (dissolved)	0.094	17	0.52	Rhone Poulenc
Pb (total)	0.54	All but 21	131	Arkema
Pb (dissolved)	0.54	6	1.49	Rhone Poulenc
Ni (total)	16	21	142	Rhone Poulenc
Ni (dissolved)	16	4	25.5	Arkema
Zn (total)	36	28	556	Rhone Poulenc
Zn (dissolved)	36	1	526	Rhone Poulenc
Cyanide	5.2	2	23.1	GASCO
4,4'-DDT <sup>5</sup>	0.001	5	2.7	Arkema

<sup>4</sup> Hardness adjusted; harness = 25 mg/l

<sup>5</sup> Detection limits for non-detected values all exceed AWQC